## **ENERGY** CAPITAL



Overview
June 2017
BSC LCWG

www.energycapital.org.uk



### **Agenda**

- What is Energy Capital?
- Why a focus on energy?
- How we plan to deliver?
- Net-Form and UGC





## **Energy Capital is all about supporting economic development**

- Making the WM the most attractive region to base and grow innovative energy businesses
- 2. Delivering more competitive fuel and power to WM businesses and people

#### This will be achieved through:

- Partnership and collaboration
- Exploiting our natural advantages and strengths
- Market-making





## There is a significant opportunity and set of needs in the energy sector

- \$2.7 trillion global market
- Step change driven by smart technologies (low cost IT) and storage, plus renewables
  - System optimisation becomes economic at a much smaller scale
- Everyone needs competitive energy
- Convergence between sectors
  - Energy
  - Transport
  - Construction
  - Digital



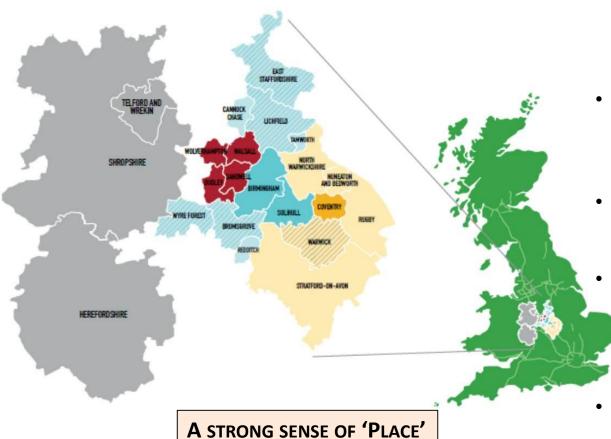






## We have a unique opportunity in the West Midlands

#### POLITICAL INTEGRITY AND COHERENT LEADERSHIP



- Devolution
- High value manufacturing
  - Specialist foundries and castings
  - Advanced automotive (Tier 1)
  - Aerospace
- Transport technologies
  - Rapidly expanding JLR
  - Premium and R&D-led automotive
- Energy infrastructure
  - Centre of UK electricity and gas networks and industries
  - Dense and diverse urban market
    - £10bn energy spend
    - £2.5bn energy infrastructure
    - £10bn housing planned
    - HS2 terminals
- Adjacent rural hinterland
  - Attractive place to live

**ENERGY** CAPITAL



### Our launch and early projects provide some of the best examples yet of cross-WMCA collaboration and partnership

**Energy** 

Construction

Manufacturing

**Transport** 

























**Public sector** 



















**Locally-driven** demand













# Market-making is critical to the success of (energy) innovations and we can now do this much better

- The UK has a lousy track record (e.g., Graphene) too much "supply push"
- Energy (technology) markets are made (and destroyed) by regulations, infrastructure and people (demand)
- Clever technology and brilliant universities are not enough
- PLACE is key to energy systems innovation and creating meaningful industrial eco-systems
- WM Places are attractive for energy systems and our diversity is an asset. They are big enough to support *industrial clusters*, not just demonstrators.
- The concept to seize this opportunity being promoted by Energy Capital is 'Energy Innovation Zones' – low risk regulatory experimentation





# We plan to establish large 'energy innovation zones' (EIZ) to provide platforms for commercialisation

- In discussion with Ofgem (Future Markets); National System Operator; Distribution Network Operators; BEIS
- Strong alignment of regional industry and political leaders

#### **Energy Innovation Zone(s) (EIZ)**

- Regulatory 'sandbox'
- Bespoke infrastructure and business models
  - Public/customer/political engagement
    - Investment incentives
    - Supervised governance/evaluation
- Commercially worthwhile scale beyond a pilots or demonstrators





# New devolved UK political structures are allowing us to secure public sector support and invest in infrastructure

- West Midlands Combined Authority with devolved powers
  - New Mayor
  - Powers over clean air, housing, hopefully energy
- Business-led Local Enterprise Partnerships (LEPs) in the WM invested over £800m since 2012, further £100m about to be released
  - Leveraging >£2bn of private investment
  - Facilitating more commercially-beneficial relationships between universities and local industry and people
- Pragmatic and place-focused civic leadership, cutting through national political challenges





### We are focused on creating an optimal context to develop and grow new industrial markets and businesses

#### **Energy Capital Steering Group**

Political & Regulatory, Investment and Marketing support

### Political and Regulatory

EIZs (local market regulation)

Influence over local policies affecting energy (e.g., planning)

**Public funding** 

#### Investment

Ring-fenced investment fund

Venture fund

#### **Opportunities**

Infrastructure data and masterplanning

#### **Marketing**

Joint branding

**Communications** 

**Inward Investment** 

#### Skills and training

Professional development

#### **Engagement**

Local supply chains

Market making

Community energy engagement

**Public support** 





# Energy Capital is driven by local markets and strongly supported by our world-class regional universities

#### Individual customers with economic needs

Commercial opportunity Comfort and well-being



#### Commercial scale local markets created through geographic shared interest

Shared infrastructure Shared regulation Shared place

#### **Knowledge base**

University of Aston
University of Birmingham
Birmingham City University
University of Coventry
University of Warwick
University of Wolverhampton

#### Skills base and history

Manufacturing
Energy
Automotive
Diversity

#### **Global partners**

Innovations Experience Opportunity



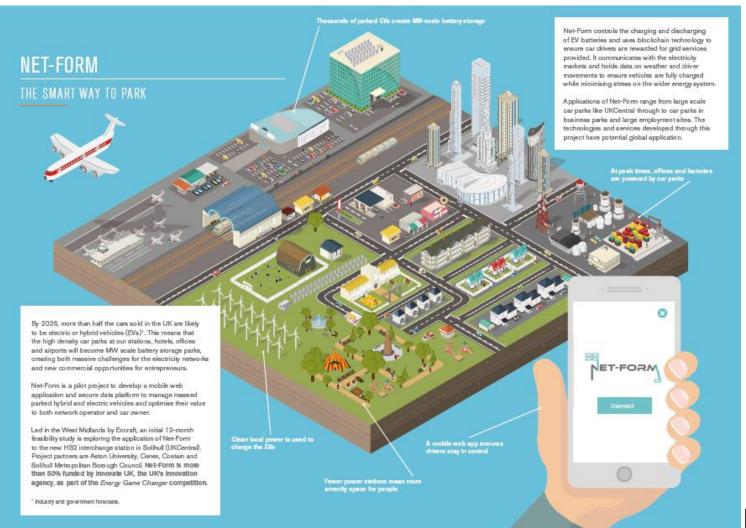
## Across the region, we already have significant projects developing and delivered

- Transport and grid services
- Major energy efficient refurbishment and smart energy opportunities
- Powering Growth
- Tyseley Energy Park





### When energy and transport markets converge























# We work in partnership and welcome innovation and approaches from all over the world

For more details:

https://www.youtube.com/watch?v=sq4zeyvi5Cw

www.energycapital.org.uk enquiries@energycapital.org.uk

Thank you

